

PATENT ABSTRACTS OF JAPAN(11)Publication number : **05-301776**(43)Date of publication of application : **16.11.1993**

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C04B 35/58**C04B 35/58**(21)Application number : **04-108286**(71)Applicant : **KYOCERA CORP**(22)Date of filing : **28.04.1992**(72)Inventor : **NARITA KENYA****(54) CUBIC BORON NITRIDE-BASED SINTERED COMPACT****(57)Abstract:**

PURPOSE: To improve the toughness and remarkably improve performance in, e.g. intermittent cutting and heavy cutting without producing a boron compound due to the use of a binder unreactive with BN.

CONSTITUTION: The objective sintered compact comprises 30-85vol.% cubic boron nitride and the remainder composed of a mixture of silicon nitride with aluminum nitride, aluminum oxide and silicon oxide or compounds thereof, or 30-85vol.% cubic boron nitride and the remainder composed of a mixture of silicon nitride with aluminum nitride and a rare earth metallic oxide or compounds thereof.

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